

ABSTRACT

A method and apparatus for biological and/or chemical decomposition of waste containing organic matter. The method includes waste pretreatment in which waste is fragmented and homogenised in a pretreatment apparatus (10a, 10b) operating on the principle of a multi-ring double action impact mill. The apparatus has either two rotors (62, 64) or a rotor and stator disposed inside a housing (26), which rotors and/or stator are equipped with blades having impact surfaces, and which form one or more rings (1,2,3,...) coaxial with the rotor. The waste is fed into the housing through the hub of rings formed by the blades, and travels by the effect of a rotor or rotors, to the outer ring of the ring (7) formed by the outermost blades, and further to the discharge opening (25, 27') at the outer ring.